

**REMEDIAL DESIGN/REMEDIAL ACTION (RD/RA)
COOPERATIVE AGREEMENT
PROGRESS REPORT**

AGREEMENT NO.: V-990601-02-0

SITE NAME: McCormick & Baxter Creosoting Co.
Portland, OR

PREPARED BY: Bill Dana, Project Manager
Oregon Dept. of Environmental Quality (DEQ)

DATE: April 30, 1998

PERIOD: January 1, 1998 through March 31, 1998

1. PROGRESS MADE THIS PERIOD

During this reporting period, DEQ, in conjunction with EPA, issued an Amendment to the Record of Decision (ROD) for the site. The Amendment changes the on-site treatment portion of the selected soil remedy for the site to off-site disposal of highly contaminated soil. The ROD Amendment was signed by EPA's Regional Administrator, Chuck Clarke, on March 17, and by DEQ's Director, Langdon Marsh, on March 20, 1998. A fact sheet announcing the signing of the ROD Amendment was also issued in March.

As a result of the ROD Amendment, DEQ submitted an amended Scope of Work for the Cooperative Agreement, to EPA, on March 19, 1998. Revision of the Scope of Work was required under Condition number 15 of the Agreement.

During the reporting period, DEQ staff reviewed and provided written comments on several deliverables submitted by DEQ's contractor, Ecology & Environment, Inc. (E&E). Work products submitted by E&E during the reporting period included the following: Preliminary (30% completion) and Pre-Final (90% completion) Design Documents for the amended soil remedy, a final version of the Groundwater Monitoring Report for the third quarter 1997, a draft version of the Groundwater Monitoring Report for the fourth quarter 1997; a Final Revised Remedial Design Data Summary Report, and an interim deliverable (Chapter 3, Data Gaps) of a draft Groundwater Remedial Action Sampling and Quality Assurance Plan (Groundwater SQAP). In addition, DEQ staff reviewed three invoices, three Task Order Progress Reports and two Budget and Assumption Proposals (BAPs) submitted by E&E.

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Cooperative Agreement Progress Report

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DEQ participated in a meeting with EPA, and E&E, on February 4, 1998, to discuss soil remedy design issues. DEQ also met with EPA and E&E on February 25, 1998, to discuss groundwater remedy enhancement data gaps, and development of the Groundwater SQAP.

In total, DEQ staff (excluding the laboratory) spent 366.5 hours on RD and RA activities during the reporting period. Copies of DEQ's Direct Labor Summaries, for RD/RA activities during this period, are attached.

During this reporting period, E&E staff worked primarily on the soil remedy design documents and on the draft Groundwater SQAP (submitted April 1, 1998). E&E also investigated soil sieve analysis procedures, to determine the appropriate method for measuring the effectiveness of screening surface soil as part of soil remediation activities. E&E staff installed a metals removal system for the FWDA groundwater treatment system at the site. Routine, quarterly groundwater monitoring was conducted by E&E in January. E&E assigned an engineer to work full-time at the site, beginning in March 1998. In addition, E&E conducted or coordinated on-going NAPL recovery, wastewater treatment system operation and maintenance, and general site security and maintenance.

E&E issued Task Order Progress Reports, describing these and other activities, on January 19, 1998 (for the period November 30 through January 3, 1997), on February 13, 1998 (for the period January 4 through January 31), on March 23, 1998 (for the period February 1 through February 28), and on April 9, 1998 (for the period March 1 through March 28). Copies of the February 13, March 23, and April 9 reports are attached. The January 19 report was submitted with the previous Cooperative Agreement Progress Report.

2. BUDGET STATUS SUMMARY

Budget status summaries are included in the attached Task Order Progress Reports from E&E, and in the attached DEQ accounting tables. Note that costs are reported for both Remedial Action and Remedial Design. EPA awarded Remedial Design funds to DEQ in January 1998.

3. SCHEDULE STATUS

Time savings have been made and implementation of the soil remedy is now back on schedule. Design of the amended soil remedy is expected to be completed, and contractor procurement initiated, in May 1998. Award of the contract is expected to occur in mid-August. Groundwater remedy enhancement tasks are somewhat behind schedule, as a number of issues were raised concerning the updated CSM and

development of the Groundwater SQAP. Updated schedules for RD and RA activities were received from E&E in March. The schedules are oversized and in color and cannot be readily duplicated by DEQ. Copies of the schedules were hand-delivered to you in March. E&E indicates that those schedules are still current.

4. ISSUES AND/OR PROBLEMS ENCOUNTERED AND RESOLUTION

As indicated above, the soil remedy is now back on schedule, and development of the Groundwater SQAP is moving forward. Accordingly, there were no significant issues/problems during the reporting. There are some potential issues, in that approvals from Union Pacific Railroad, Metropolitan Service District (Metro), and from the City of Portland will be required for implementation of portions of the soil remedy. Discussions with those parties are underway.

5. ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

During the next reporting period (April 1 through June 30, 1998), E&E will complete the design of the soil remedy, and DEQ will initiate procurement of a remediation contractor. In addition, E&E will submit a final version of the Groundwater SQAP, and groundwater investigation field work will begin. Second quarter 1998 groundwater monitoring will be conducted, and a Groundwater Monitoring Report for the first quarter 1998 will be submitted. DEQ will issue at least one fact sheet to the public.

attachments

TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 73539
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle
 Date: February 13, 1998
 Period: January 4, 1998 through January 31, 1998

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ^a
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$4,183.65	\$33,318.27	\$55,914.00	60%
4-RD Subcontractor Procurement	\$0.00	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$464.14	\$6,554.60	\$8,904.00	95%
6-RD Data Acquisition	\$0.00	\$16,047.76	\$30,476.00	90%
7-Sample Analysis	\$0.00	\$9,892.00	\$10,302.00	100%
8-RD Data Validation	\$0.00	\$501.29	\$1,979.00	100%
9-RD Data Management	\$98.08	\$20,358.78	\$21,367.00	95%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$8,134.58	\$71,842.38	\$78,218.00	95%
14-Pre-Final/Final Design	\$1,308.16	\$1,308.16	\$59,531.00	10%
RD Subtotal	\$14,188.61	\$164,655.96	\$271,180.00	60%
21-RA Planning and Support	\$6,583.67	\$29,606.03	\$53,366.00	55%
22-RA Site-Specific Plans	\$7,818.92	\$97,539.95	\$100,746.00	95%
23-Construction Contractor Procurement	\$170.60	\$5,252.17	\$37,941.00	15%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$224.67	\$1,939.00	15%
27-RA Implementation	\$59,392.64	\$259,141.07	\$541,453.00	50 %
RA Subtotal	\$73,965.83	\$391,763.89	\$735,445.00	50%
TOTAL	\$88,154.44	\$556,419.85	\$1,006,625.00	50%

^a Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

Task 3: RD Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared invoice number 73120 dated January 19, 1998 for the previous reporting period. Finally, E & E continued to assisted DEQ with preparation of the ROD Amendment.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	15	Project admin. BAP prep. ROD Amendment
J. Montgomery	Program Manager	1	Program Management oversight
K. Smith	Engineer	20	Project management. BAP preparation. invoice preparation
C. Nancarrow	Engineer	2.5	Invoice preparation
A. Showers	Graphics	2.75	ROD Amendment graphics

Task 5: RD Community Relations. At DEQ's request, E & E prepared a figure and table of risk calculations for each proposed remedial action area for inclusion in the Amended ROD.

Individual	Role	Hours	Activity
P. Witt	GIS Manager	3	Figure preparation
G. Randall	Data Manager	2	Table preparation

Task 6: RD Data Acquisition. No activities were conducted during this period.

Task 8: RD Data Validation. No activities were conducted during this period.

Task 9: RD Data Management. In response to DEQ and EPA comments, E & E modified Figure 6-3 from the Revised Draft RD Data Summary Report as part of preparing the final report.

Individual	Role	Hours	Activity
A. Hanson	GIS Operator	2	Figure revision for Final RD Data Summary Report

Task 11: Preliminary Design. E & E continued preparation of the 30% soil design documents during this period. The 30% design submittal will include drawings, specification section 01010 - Scope of Work, the specification's Table of Contents, the Basis of Design report, a preliminary cost estimate, and a preliminary schedule. The 30% design documents were submitted to DEQ on January 16, 1998.

Individual	Role	Hours	Activity
A. Whitman	Senior Engineer	8	Preliminary soil design oversight
K. Smith	Engineer	32	Preliminary soil design organization, scoping, and oversight.
R. Earlywine	Engineer	16	Preparation of Basis of Design report and construction cost estimate.
C. Nancarrow	Engineer	40	Preparation of preliminary specification sections. Basis of Design report, and five (5) design drawings.

Individual	Role	Hours	Activity
A. Saxton	Clerical	0.25	Word processing, publications support.

Task 14: Pre-Final Design. E & E initiated preparation of the Pre-Final Soil Design documents during this period. E & E continued refinement of the construction cost estimate, collected boilerplate specification sections, and marked-up engineering drawings as part of internal review.

Individual	Role	Hours	Activity
R. Earlywine	Engineer	14	Cost estimate and boilerplate specifications
K. Smith	Engineer	4	Drawing review

Task 21: RA Planning and Support/Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RA activities and prepared the invoice for the previous reporting period. E & E prepare two cost proposals during this period to revise the CSM and to prepare a Groundwater Sampling Quality Assurance Plan (GW-SQAP). The proposal to revise the CSM was submitted to DEQ on January 14, 1998. The proposal to prepare the GW-SQAP was submitted on January 30, 1998. Numerous scoping meetings were held as part of preparing these cost proposals.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	16	BAP preparation, monthly program oversight, scoping meetings
K. Smith	Engineer	28	BAP preparation, scoping meetings
D. Anderson	Hydrogeologist	25	BAP preparation, scoping meetings
C. Nancarrow	Engineer	6.5	Invoice preparation

Task 22: RA Site Specific Plans. During discussions regarding revisions to the CSM or preparation of the GW-SQAP, E & E proceeded with modifying certain figures that could be used in either document. In addition, E & E proceeded with modifying the list a key data gaps that exist for groundwater. E & E also prepared a new cross section of the site (cross section C-C).

Note: The hours for April Showers were originally billed on invoice no. 72947 dated November 19, 1997. An internal adjustment was performed to move the 3.5 hours from labor category T2 to SS; this occurred on invoice no. 73111 dated December 15, 1997. These same 3.5 hours were then credited to DEQ by mistake in invoice no. 73120 dated January 20, 1998, therefore, E & E is rebilling the hours in this invoice.

Individual	Role	Hours	Activity
D. Anderson	Hydrogeologist	25	Revised CSM discussions, figure modifications.
M. Witnauer	Geologist	62	Geologic data analysis, preparation of new cross section C-C, revisions to existing CSM figures.
C. Nancarrow	Engineer	11	CAD operation
A. Showers	Graphics	3.5	See explanation above

Task 23: Construction Contractor Procurement. E & E met with DEQ to discuss the contracting strategy for procurement of the soil remedial contractor.

Individual	Role	Hours	Activity
K. Smith	Engineer	2	Contracting strategy meeting

Task 26: RA Data Validation. No activities were conducted during this period.

Task 27: RA Implementation. During this period, E & E continued to provide routine oversight and management of on-going site activities and groundwater remedial actions. E & E oversaw installation of the ATA Aqua-Fix metals removal system for the FWDA treatment system during this period. The installation work was performed by ADT. Quarterly groundwater sampling was performed during the week ending January 31, 1998. E & E received analytical results from DEQ's laboratory for the 4th Quarter 1997 sampling and copied the data into the site database. Finally, E & E modified the 3rd Quarter 1997 Quarterly report in accordance with DEQ's comments and issued the final report on January 15, 1998.

During this period, E & E's site operations subcontractor oversaw the repair of the site fork truck. The fork truck required significant repairs due to lack of routine maintenance. Repair of the truck was demonstrated to be more cost effective than purchase of a new truck in E & E's November 25, 1997 e-mail to Steve Campbell. The fork truck repair expenses were included in ADT's January 21, 1998 invoice.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	1	Activity oversight
K. Smith	Engineer	40	Site operation subcontract oversight. schedule of site activities.
D. Anderson	Hydrogeologist	8	RA site activity oversight.
C. Nancarrow	Engineer	68.5	Quarterly groundwater sampling. Ion exchange equipment installation oversight. finalized 3rd Quarter 1997 report.
M. Witnauer	Geologist	38.5	Site inspections. data collection.
K. Miller	Technician	41.5	Quarterly groundwater sampling
A. Saxton	Clerical	2.5	Quarterly report
A. Showers	Graphics	2	Quarterly report
J. Mihalek	Clerical	47.5	Quarterly groundwater data entry. word processing

3. ISSUES OF IMPORTANCE.

None at this time.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Submit draft 4th Quarter 1997 Quarterly Report;
- Continue preparation of Pre-Final Design Documents;
- Submit Final RD Data Summary Report; and
- Submit interim deliverable for the GW-SQAP.

6. DELIVERABLES SUBMITTED

- Final 3rd Quarter 1997 Quarterly Report submitted on January 15, 1998.
- Preliminary Soil Design documents submitted on January 16, 1998.
- Revised CSM cost proposal submitted on January 14, 1998.
- GW-SQAP cost proposal submitted on January 30, 1998.

7. KEY PERSONNEL CHANGES

No personnel changes have occurred during this reporting period.

8. SUBCONTRACTING

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

9. DATA GENERATED

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports. Supplemental soil sampling data collection activities were reported in the revised draft data summary report.

10. MBE, WBE, SBRA INVOLVEMENT

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

11. LABORATORY SERVICES

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 73582
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: John Montgomery, Project Manager, E & E - Portland
 Date: March 23, 1998
 Period: February 1, 1998 through February 28, 1998

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ^a
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$1,844.36	\$35,162.62	\$55,914.00	60%
4-RD Subcontractor Procurement	\$0.00	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$0.00	\$6,554.60	\$8,904.00	95%
6-RD Data Acquisition	\$31.77	\$16,079.53	\$30,476.00	95%
7-Sample Analysis	\$0.00	\$9,892.00	\$10,302.00	100%
8-RD Data Validation	\$0.00	\$501.29	\$1,979.00	100%
9-RD Data Management	(\$1,526.57)	\$18,832.21	\$21,367.00	95%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$3,224.49	\$75,066.88	\$78,218.00	95%
14-Pre-Final/Final Design	\$13,738.24	\$15,046.40	\$59,531.00	50%
RD Subtotal	\$17,312.29	\$181,968.25	\$271,180.00	70%
21-RA Planning and Support	\$1,988.52	\$31,594.55	\$65,036.00	50%
22-RA Site-Specific Plans	\$11,649.85	\$109,189.80	\$141,247.00	75%
23-Construction Contractor Procurement	\$4,760.13	\$10,012.30	\$37,941.00	25%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$224.67	\$1,939.00	15%
27-RA Implementation	\$33,269.40	\$292,410.47	\$541,453.00	50%
RA Subtotal	\$51,667.90	\$443,431.79	\$787,616.00	55%
TOTAL	\$68,980.19	\$625,400.04	\$1,058,796.00	60%

^a Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

Task 3: RD Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared invoice number 73539 dated February 13, 1998 for the previous reporting period.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	4	Project management
K. Smith	Engineer	15	Project management, invoice preparation.

Task 5: RD Community Relations. No activities were conducted during this period.

Task 6: RD Data Acquisition. E & E investigated soil sieve analysis procedures to determine the appropriate method for measuring the effectiveness of screening surface soil as part of the soil remedial activities. E & E selected ASTM Method C117 and C136. Three 5 gallon soil sample were collected from the site and submitted for sieve analysis. The sampling and analysis activity was performed in March 1998 and will be included in the subsequent invoice. The sieve analysis cost was \$225. No additional funds will be required for this analytical expense since the current soil laboratory analysis budget is under spent.

Individual	Role	Hours	Activity
C. Nancarrow	Engineer	0.5	Soil sieve analysis procedures

Task 8: RD Data Validation. No activities were conducted during this period.

Task 9: RD Data Management. No activities were conducted during this period. Time sheet correction has been processed as noted in previous invoice 7312. Fourteen (14) hours have been corrected to task OH4110 in this invoice.

Individual	Role	Hours	Activity
R. Earlywine	Engineer	-23	Time sheet adjustment

Task 11: Preliminary Design. E & E completed the preliminary soil design documents during this period and attended a design review meeting with DEQ and EPA. The meeting was held at the site on February 4, 1998. In addition, E & E issued the new pages and figures for the Final Revised RD Data Summary Report on February 19, 1998.

Individual	Role	Hours	Activity
K. Smith	Engineer	14	Meeting preparation and attendance
R. Earlywine	Engineer	14	Preliminary cost estimate
R. Whitlock	Computer Support	0.5	CAD file management
C. Nancarrow	Engineer	2.5	CAD operation
A. Hanson	GIS Operator	4	Exported GIS contours to CAD
A. Saxton	Clerical	2.5	Production assistance

Task 14: Pre-Final Design. Following the preliminary design, E & E continued work on the pre-final soil design documents. The pre-final documents include technical specifications, drawings, cost estimate, Basis of Design Report, bidding documents, and contract documents. No submittals were due for this task during this reporting period.

Individual	Role	Hours	Activity
A. Whitman	Senior Engineer	6	Design review meeting.
J. Montgomery	Project Manager	3	Design review meeting.
K. Smith	Project Engineer	40.5	Soil design activities.
R. Earlywine	Project Engineer	29	Soil design activities, cost estimate.
R. Whitlock	Computer Support	2	CAD file management.
C. Nancarrow	Project Engineer	79.50	Soil design, specification preparation, and CAD figures.
T. Napier	Graphics	0.25	Specification cover.
E. Hamlin	Clerical	17	Word processing.
A. Showers	Graphics	5.5	Site vicinity map, location map.

Task 21: RA Planning and Support/Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RA activities and prepared the invoice for the previous reporting period. E & E processed the amendment to the task order for the GW-SQAP activities described in E & E's January 30, 1998 proposal.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	6	BAP preparation, monthly program oversight, scoping meetings
K. Smith	Engineer	15	RA project management, invoice prep., and processed change order for the GW-SQAP

Task 22: RA Site Specific Plans. During this period, E & E continued preparation of the GW-SQAP. An interim deliverable was submitted to DEQ on February 19, 1998 which consisted of Section 3 of the GW-SQAP. A subsequent meeting was held on February 25, 1998 during which the content of E & E's submittal was critiqued and the scope of the pending sections was finalized.

Individual	Role	Hours	Activity
J. Montgomery	Project Manager	23	GW-SQAP Section 3 preparation, review, and meeting attendance.
K. Smith	Engineer	10	GW-SQAP meeting attendance and figure review
M. Witnauer	Geologist	75	GW-SQAP figure preparation, text preparation, review of borehole data, meeting preparation.
R. Bidell	CAD Operator	15	CAD figure modifications
C. Nancarrow	Engineer	12	CAD figure modifications
J. Mihalek	Clerical	7	Word processing

Task 23: Construction Contractor Procurement. E & E is preparing the contract portion of the soil specifications under this task. Utilizing boilerplate information received from DEQ, E & E began preparation of the Invitation for Bid, Instructions to Bidders, Sample Contract, Bid Form, Supplements to Bid Form, Bonding Requirements, Insurance Requirements, and Prevailing Wage Rates.

Individual	Role	Hours	Activity
K. Smith	Engineer	53	Contract document preparation
M. Wright	Contracts Coordinator	3	Contract document preparation

Task 26: RA Data Validation. No activities were conducted during this period.

Task 27: RA Implementation. During this reporting period, E & E finalized the Third Quarter 1997 report and received data for the Fourth Quarter 1997 report. E & E conducted routine site inspections and downloaded pressure transducer data. E & E's health and safety office visited the site to review the current health and safety plan. This visit was also intended to evaluate the site operations for the pending soil removal activities.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	4	Activity oversight
D. Franzen	Health and Safety Officer	8	Site Health and Safety inspection
K. Smith	Engineer	22	Site operation subcontract oversight, schedule of site activities, quarterly report review.
C. Nancarrow	Engineer	50.5	Fourth quarter 1997 report preparation, Data entry of First quarter 1998
M. Witnauer	Geologist	19	Site inspections, data collection.
E. Hamlin	Clerical	5	Quarterly groundwater sampling
A. Saxton	Clerical	2.5	Quarterly report
A. Showers	Graphics	3.25	Quarterly report
J. Mihalek	Clerical	30	Quarterly treatment system data entry, word processing

3. ISSUES OF IMPORTANCE.

None at this time.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Submit Pre-Final Soil Design Contract Documents;
- Submit Fourth Quarter 1997 report;
- Submit Draft GW-SQAP;

6. DELIVERABLES SUBMITTED

- GW-SQAP Interim Section 3 delivered on February 19, 1998
- Revised Final RD Data Summary Report pages delivered on February 19, 1998.

7. KEY PERSONNEL CHANGES

John Montgomery has assumed the Project Manager position for this project.

8. SUBCONTRACTING

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

9. DATA GENERATED

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports.

10. MBE, WBE, SBRA INVOLVEMENT

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

11. LABORATORY SERVICES

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TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 73582
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: John Montgomery, Project Manager, E & E - Portland
 Date: April 9, 1998
 Period: March 1, 1998 through March 28, 1998

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ^a
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$1,176.52	\$36,339.14	\$55,914.00	60%
4-RD Subcontractor Procurement	\$0.00	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$0.00	\$6,554.60	\$8,904.00	95%
6-RD Data Acquisition	\$0.00	\$16,079.53	\$30,476.00	95%
7-Sample Analysis	\$0.00	\$9,892.00	\$10,302.00	100%
8-RD Data Validation	\$0.00	\$501.29	\$1,979.00	100%
9-RD Data Management	\$0.00	\$18,832.21	\$21,367.00	95%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$569.22	\$75,636.09	\$78,218.00	95%
14-Pre-Final/Final Design	\$28,144.87	\$43,191.26	\$59,531.00	50%
RD Subtotal	\$29,890.61	\$211,858.84	\$271,180.00	70%
21-RA Planning and Support	\$1,492.12	\$33,086.66	\$65,036.00	50%
22-RA Site-Specific Plans	\$11,877.57	\$121,067.37	\$141,247.00	75%
23-Construction Contractor Procurement	\$6,170.77	\$16,183.07	\$37,941.00	25%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$224.67	\$1,939.00	15%
27-RA Implementation	\$45,487.94	\$337,898.42	\$541,453.00	50%
RA Subtotal	\$65,028.40	\$508,460.19	\$787,616.00	55%
TOTAL	\$94,919.01	\$720,319.03	\$1,058,796.00	60%

^a Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

Task 3: RD Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared invoice number 73582 dated March 23, 1998 for the previous reporting period.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	4	Project management
K. Smith	Engineer	5	Project management, invoice preparation.
J. Mihalek	Clerical	1.5	Word processing

Task 4: RD Subcontractor Procurement. No activities were conducted during this period

Task 5: RD Community Relations. No activities were conducted during this period.

Task 6: RD Data Acquisition. No activities were conducted during this period.

Task 7: RD Sample Analysis. No activities were conducted during this period.

Task 8: RD Data Validation. No activities were conducted during this period.

Task 9: RD Data Management. No activities were conducted during this period.

Task 11: Preliminary Design. No activities were conducted during this period. The hours charged to this task were accidentally charged to the wrong task. The subsequent invoice will move these hours to Task 14.

Individual	Role	Hours	Activity
R. Earlywine	Engineer	3	Pre-final cost estimate preparation (to be moved to Task 14)

Task 14: Pre-Final Design. E & E completed the pre-final soil design documents that consisted of technical specifications, drawings, cost estimate, and the Basis of Design report. These pre-final documents were delivered on March 20, 1998 as specified in the Task Order. During this period E & E conducted various activities (noted in the table below) to complete the documents. Following DEQ's review and comment period E & E will finalize the documents under this task.

Note - E & E's effort to prepare the contract and bidding portions of the documents has been incurred in Task 23, as specified by the Task Order.

Individual	Role	Hours	Activity
K. Smith	Project Engineer	80	Organized, monitored, and reviewed soil design and document preparation activities.
R. Earlywine	Project Engineer	108	Civil engineering specifications and cost estimate preparation.
R. Whitlock	Computer Support	1.5	Computer support to troubleshoot cost estimating software problems.

Individual	Role	Hours	Activity
C. Nancarrow	Project Engineer	109	Soil design activities, specification preparation, CAD figure preparation and quality review.
D. Clements	Editor	15	Specification editing , word processing, and publications.
A. Hanson	GIS Operator	1	Converted GIS contour maps for use in AutoCAD.
E. Hamlin	Clerical	9.25	Word processing.
A. Showers	Graphics	3.5	Site vicinity map, location map.
A. Saxon	Clerical	7	Document production
R. Nordeen	Clerical	11.75	Word processing

Task 21: RA Planning and Support/Project Administration. During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RA activities and prepared the invoice numbered 73582 dated March 23, 1998 for the previous reporting period.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	4	Monthly RA project oversight
K. Smith	Engineer	5	RA project management, project staffing meeting, and invoice preparation.
C. Nancarrow	Engineer	1.5	Project staffing meeting.
J. Mihalek	Clerical	4	Word processing.

Task 22: RA Site Specific Plans. During this period, E & E continued preparation of the GW-SQAP. The GW-SQAP is scheduled for delivery on March 31, 1998. E & E continued work on the content of the GW-SQAP, developed proposed sampling rationale, sample location maps, sample QA/QC objectives, field data collection and sampling procedures, and an implementation schedule.

Individual	Role	Hours	Activity
J. Montgomery	Project Manager	27	GW-SQAP Section 3 preparation, review, and meeting attendance.
D. Clements	Editor	2.75	GW-SQAP document editing and word processing.
M. Witnauer	Geologist (Associate)	135	GW-SQAP figure preparation, text preparation, review of borehole data, meeting preparation. (55 of these hours have been modified due to a salary adjustment)
M. Witnauer	Geologist (Junior)	-55	Hours have been modified due to salary adjustment.
R. Bidell	CAD Operator	5.5	CAD figure modifications
C. Nancarrow	Engineer	1	CAD figure modifications
M. Herrmann	CAD Operator	17	CAD figure modifications
E. Hamlin	Clerical	0.25	Word processing

Individual	Role	Hours	Activity
A. Showers	Graphics	1	Figure title blocks
A. Saxon	Clerical	1	Document production

Task 23: Construction Contractor Procurement. E & E is preparing the contract portion of the soil specifications under this task. Utilizing boilerplate information received from DEQ, E & E completed preparation of the pre-final Invitation for Bid, Instructions to Bidders, Sample Contract, Bid Form, Supplements to Bid Form, Bonding Requirements, Insurance Requirements, and Prevailing Wage Rates.

Individual	Role	Hours	Activity
K. Smith	Engineer	60	Contract document preparation
C. Nancarrow	Engineer	3	Contract document preparation
M. Wright	Contracts Coordinator	9	Contract document preparation

Task 26: RA Data Validation. No activities were conducted during this period.

Task 27: RA Implementation. During this reporting period, E & E completed the Draft Fourth Quarter 1997 report. E & E conducted routine site inspections and downloaded pressure transducer data. During this period, E & E's full time site engineer began working for E & E.

In E & E's March 27, 1998 e-mail to DEQ, E & E documented the electrical problem that occurred in January. The resulting repair costs are included in this invoice.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	7	Activity oversight.
K. Smith	Engineer	27	Site operation subcontract oversight, schedule of site activities, quarterly report review.
C. Nancarrow	Engineer	32	Completed Fourth quarter 1997 report preparation.
M. Witnauer	Geologist (Associate)	18	Site inspections, data collection.
M. Witnauer	Geologist (Junior)	14	Hours have been modified due to salary adjustment
K. McGillivray	Site Engineer	42	On-site Engineer, FWDA system data collection, equipment vendor information collection.
K. Miller	Technician	13	Geotechnical soil sample collection
M. Wright	Subcontract Coordinator	2	Adjusted subcontracts to account for emergency electrical repairs.
E. Hamlin	Clerical	2	Quarterly report word processing
A. Saxton	Clerical	2.75	Quarterly report publication
A. Showers	Graphics	4.25	Quarterly report graphics and title blocks
J. Mihalek	Clerical	1	Word processing

3. ISSUES OF IMPORTANCE.

None at this time.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Submit GW-SQAP on March 31, 1998

6. DELIVERABLES SUBMITTED

- Pre-Final Soil Design documents submitted on March 20, 1998.
- Fourth Quarter 1998 Quarterly Report submitted on March 23, 1998.

7. KEY PERSONNEL CHANGES

Kevin McGillivray has assumed the on-site engineer position for the project.

8. SUBCONTRACTING

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

9. DATA GENERATED

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports.

10. MBE, WBE, SBRA INVOLVEMENT

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

11. LABORATORY SERVICES

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Action ()
For Month of January 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	18.00
	Document Review	1.00
	Employee Total:	19.00
Bill Dana	Meetings	4.00
	Communication	4.00
	Coordination	2.50
	Document Review	1.50
	Financial Management	1.00
	Employee Total:	13.00
Bruce Gilles	Meetings	2.00
	Document Review	1.00
	Analysis and Planning	1.00
	Employee Total:	4.00
		36.00

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Design ()
For Month of January 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	10.50
	Document Review	.50
	Employee Total:	11.00
Bill Dana	Meetings	2.00
	Communication	17.50
	Coordination	5.00
	Document Prep	5.50
	Analysis and Planning	1.00
	Employee Total:	31.00
Kevin Dana	Records Management	1.00
	Employee Total:	1.00
Bruce Gilles	Document Review	1.50
	Employee Total:	1.50
Jill Kiernan	Document Review	3.50
	Employee Total:	3.50
Joe Mollusky	Document Review	2.00
	Employee Total:	2.00
Barbara Petzing	Clerical/Admin Support	1.00
	Employee Total:	1.00
		51.00

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Action ()
For Month of February 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
David Anderson	No Work	8.00
	Meetings	16.00
	Document Review	2.00
	Employee Total:	26.00
Ken Cameron	Analysis and Planning	5.50
	Employee Total:	5.50
Steve Campbell	Coordination	14.00
	Document Prep	1.50
	Document Review	4.50
	Employee Total:	20.00
Bill Dana	Meetings	3.50
	Communication	2.50
	Coordination	2.00
	Document Prep	4.50
	Document Review	1.50
	Financial Management	1.00
	Employee Total:	15.00
Bruce Gilles	Meetings	3.00
	Document Review	1.00
	Employee Total:	4.00
		70.50

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Design ()
For Month of February 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Michael Anderson	Meetings	1.50
	Coordination	1.50
	Document Prep	1.50
	Document Review	3.00
	Employee Total:	7.50
Steve Campbell	Coordination	17.00
	Document Review	1.50
	Site Visits	3.00
	Employee Total:	21.50
Bill Dana	Travel	1.00
	Meetings	4.00
	Communication	11.00
	Coordination	8.00
	Document Prep	25.50
	Document Review	4.00
	Site Visits	2.00
	Financial Management	1.00
	Employee Total:	56.50
Bruce Gilles	Site Visits	3.00
	Employee Total:	3.00
Jill Kiernan	Document Prep	1.50
	Document Review	.50
	Employee Total:	2.00
Joe Mollusky	Site Visits	4.00
	Employee Total:	4.00
Daniel Murphy	Clerical/Admin Support	.50
	Employee Total:	.50
Barbara Petzing	Clerical/Admin Support	13.00
	Employee Total:	13.00

(dls_bystaff_subprog.sql)

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Design ()
For Month of February 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Lon Revall	Meetings	1.00
	Document Review	.50
	Employee Total:	1.50
Mary Wahl	Coordination	2.00
	Employee Total:	2.00
		111.50

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Action ()
For Month of March 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
David Anderson	Meetings	10.00
	Document Prep	3.00
	Document Review	2.00
	Employee Total:	15.00
Jo Brooks	Coordination	.50
	Employee Total:	.50
Steve Campbell	Coordination	4.00
	Employee Total:	4.00
Bill Dana	Meetings	.50
	Communication	1.00
	Coordination	2.00
	Document Prep	2.50
	Document Review	1.00
	Employee Total:	7.00
		26.50

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Design ()
For Month of March 1998

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	7.50
	Document Review	6.00
	Employee Total:	13.50
Bill Dana	Travel	1.00
	Meetings	1.00
	Communication	16.00
	Coordination	14.00
	Document Prep	10.50
	Document Review	2.00
	Analysis and Planning	.50
	Employee Total:	45.00
Kevin Dana	Document Prep	1.00
	Records Management	1.00
	Employee Total:	2.00
Daniel Murphy	Clerical/Admin Support	2.00
	Employee Total:	2.00
Barbara Petzing	Clerical/Admin Support	8.50
	Employee Total:	8.50
		71.00

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
 REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE
 V-990601-02
 FOR THE PERIOD OF 8/1/97 - 3/31/98**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 7,441	\$ -	\$ 18,616
Services & Supplies	147,911	106,523	254,727
Capital Outlay	<u>-</u>	<u>-</u>	<u>-</u>
Total Direct Cost	155,352	106,523	273,343
Indirect Cost:	<u>1,461</u>	<u>-</u>	<u>3,654</u>
TOTAL COST	<u>\$ 156,813</u>	<u>\$ 106,523</u>	<u>\$ 276,997</u>

REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE
EAS FUND 672/R*STARS PCA 696XX (G-34504-98)
V-990601-02
SUMMARY WORKSHEET
8/1/97 - 9/30/01

QTR	1st 8/1/97 9/30/97	2nd 10/01/97 12/31/97	3rd 1/01/98 3/31/98	4th 4/01/98 6/30/98	Final Costs FY 98	5th 07/01/98 09/30/98	6th 10/01/98 12/31/98	7th 1/01/99 3/31/99	8th 4/01/99 6/30/99	1st 07/01/99 09/30/99	2nd 10/01/99 12/31/99	3rd 1/01/01 3/31/01	4th 4/01/01 6/30/01	5th 07/01/01 09/30/01	COSTS TO DATE
PS	\$ 6,095.20	\$ 5,079.60	\$ 7,440.99	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	18,615.79
SS	28.75	264.73	147,910.97	-	-	-	-	-	-	-	-	-	-	-	148,204.45
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-DIRECT	6,123.95	5,344.33	155,351.96	-	-	-	-	-	-	-	-	-	-	-	166,820.24
FY 98 -19.63%	1,196.49	997.12	1,460.67	-	-	-	-	-	-	-	-	-	-	-	3,654.28
TOTAL	\$ 7,320.44	\$ 6,341.45	\$ 156,812.63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 170,474.52
Encumbrances:															106,522.94
GRANT AWARD															1,292,352.00
AWARDED TO DATE															500,781.00
(OVER)/UNDER SPENT															\$ 223,783.54

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE
V-990601-02
FOR THE PERIOD OF 10/1/97 - 3/31/98**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 8,272	\$ -	\$ 26,436
Services & Supplies	100,211	395,853	729,222
Capital Outlay	<u>-</u>	<u>-</u>	<u>-</u>
Total Direct Cost	108,483	395,853	755,658
Indirect Cost:	<u>1,624</u>	<u>-</u>	<u>5,189</u>
TOTAL COST	<u>\$ 110,107</u>	<u>\$ 395,853</u>	<u>\$ 760,847</u>

REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE
EAS FUND 673/R*STARS PCA 697 (G34505-98)
V-990601-02
SUMMARY WORKSHEET
8/1/97 - 9/30/01

QTR	1st 8/1/97 9/30/97	2nd 10/01/97 12/31/97	3rd 1/01/98 3/31/98	4th 4/01/98 6/30/98	Final Costs FY 98	5th 07/01/98 09/30/98	6th 10/01/98 12/31/98	7th 1/01/99 3/31/99	8th 4/01/99 6/30/99	1st 07/01/99 09/30/99	2nd 10/01/99 12/31/99	3rd 1/01/01 3/31/01	4th 4/01/01 6/30/01	5th 07/01/01 09/30/01	COSTS TO DATE
PS	\$ 6,930.01	\$ 11,234.44	\$ 8,271.71	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,436.16
SS	8,645.87	224,512.47	100,210.94	-	-	-	-	-	-	-	-	-	-	-	333,369.28
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-DIRECT	15,575.88	235,746.91	108,482.65	-	-	-	-	-	-	-	-	-	-	-	359,805.44
FY 98 -19.63%	1,360.36	2,205.31	1,623.74	-	-	-	-	-	-	-	-	-	-	-	5,189.41
TOTAL	\$ 16,936.24	\$ 237,952.22	\$ 110,106.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 364,994.85
Encumbrances:															395,853.06
GRANT AWARD															15,852,656.00
AWARDED TO DATE															2,381,694.00
(OVER)/UNDER SPENT															\$ 1,620,846.09

April 30, 1998

Al Goodman
U.S. Environmental Protection Agency
Oregon Operations Office
811 SW Sixth Ave.
Portland, OR 97204

Re: McCormick & Baxter Site
RD/RA Coop. Agreement
Quarterly Progress Report

Dear Al:

Enclosed is a Quarterly Progress Report for the McCormick & Baxter Creosoting Co. NPL site, as required by Remedial Design/Remedial Action (RD/RA) Cooperative Agreement number V-990601-02, between the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ). The report is for the period January 1 through March 31, 1998.

If you have any questions concerning this report, please let me know.

Sincerely,

Bill Dana

William H. Dana
Project Manager
Waste Mgmt. & Cleanup Division

enclosure

cc: Steve Campbell, DEQ (w/encl.)
John Montgomery, E&E (w/o encl.)

